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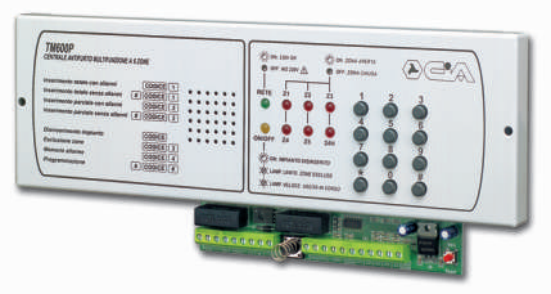

TM600P

6 zones multifunction burglar central unit panel

USER`S MANUAL

CE EMC 89/336 CEE

Sistema certificato
UNI EN ISO9001:00

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1 Introduction

Kind customer,

Thank you to have acquired our product that, and we are sure, will give you a lot of satisfactions. We advise you to read this manual carefully, it will be precious both in phase of installation and of use.

As a customer CIA you can approach to several services, first of all a *telephonic technical attendance* on CIA products.

1.1 Description of the central

Panel TM600P is a burglar alarm central with technology at microprocessor to use in the context of modular series TM; it installs in a container TM3 or TM4 and fed with power supplier/battery TM15 or TM25, or respective version with auxiliary relè .

Central panel alarm TM600P manages a burglar alarm system of production at 5 zones, more one zone for the anti sabotage protection; it must used in coupling to magnetic sensors of perimetrical protection, and/or in coupling to volumetric detectors of presence.

Alarm can be: sonorous / luminous, in coupling to the self powered burglar of outside SA310; sonorous, in coupling to the burglar piezoelectronic for insides SP31; telephonic, in coupling to the outside mobile telephone dialer CT81, or in coupling to panel mobile telephone dialer TM81P or TM82P, to install together with central panel burglar alarm TM600P in a combined container TM4C.

1.2 Operating features

- 6 zones of protection: 3 immediate/delay, 2 immediate, 1 anti sabotage "24h".
- Zones singularly excluded.
- Time of output programming from 0 to 199 sec.
- Time of input programming from 0 to 199 sec.
- Alarm duration programming from 0 to 1990 sec.
- Personal code of access to the programming.
- Predisposition to card SK50 and electronic key SK.
- Total or partial insertion by keypad of the central or electronic key SK.
- Function "GONG" on all the zones.
- Function "CONTINUOUS GONG " on zone 1.
- Possibility of exclusion burglar during the taste of the system.
- Function " ALARM MEMORY" to indicate the zone that have generated the alarm.
- Incorporated speaker of signalling.
- LEDs of control: presence net, time of output, alarm and state zone.
- Predisposition to the connection of the system of commando PX, SK, KB and SCM (proximity key electronic keypad and magnetic paper,).
- Buzzer of signalling of the time of output and alarm (excluding).
- Fuses of protection on feeding buzzers and feeding services.
- Tamper of protection anti/opening of central (excluding).

1.3 Technical featuring

- Operating voltage:13 Vcc ± 5% (Only feeder series TM)
- Absorption in stand-by max:50 mA
- Tension in output services:13 Vcc
- Current supply in output services max:900mA (with TM15 or TM15R)
- 1500mA (with TM25 or TM25R)
- Maximum current output alarm memory:100 mA
- Fuse of protection output burglar:3A rapid type 5x20mm
- Fuse of protection output services:1A rapid type 5x20mm
- Dimensions:285x120x22mm

HiLTRON® S.r.l.
PROGETTAZIONI E PRODUZIONI ELETTRONICHE

DICHIARAZIONE CE DI CONFORMITA'

COSTRUCTOR: **HiLTRON S.r.l.**

ADRESS: **Via Caserta al Bravo, 218 - 80144 - NAPOLI**

TRADE MARK:

CODE OF PRODUCT: **TM600P**

DESCRIPTION OF PRODUCT: **PANEL BURGLAR ALARM SYSTEM 6 ZONE**

DESCRIBED PRODUCT OVER TURN OUT CONFIRMING TO REQUIREMENTS PRESCRIBED IN THE FOLLOWING NORMS :

APPLIED NORM	TITLE
EN50130-4	NORM OF PRODUCT FOR IMMUNITY
EN50081-1	GENERIC NORM OF EMISSION Class of the generic norm: domestic, commercial and light manufacturer.
EN50082-1	GENERIC NORM OF IMMUNITY Class of the generic norm: domestic, commercial and light manufacturer.

THE CONFIRMATION HAS BEEN ESTIMATED ON BASE OF TESTES EXECUTED ON SAMPLES AND WITH PREPARATION THAT IS SIMILAR TO THE CONFIGURATION WORK PREVIEWED FOR ITS USE, SO THE PRODUCTS SATISFY REQUIREMENT OF THE DIRECTIVE 89/336/CEE AND, WHERE APPLICABLE, OF THE DIRECTIVE 73/23 CEE.

DATE

2nd Jenuary 2002

L'AMMINISTRATORE DELEGATO

2 Installation

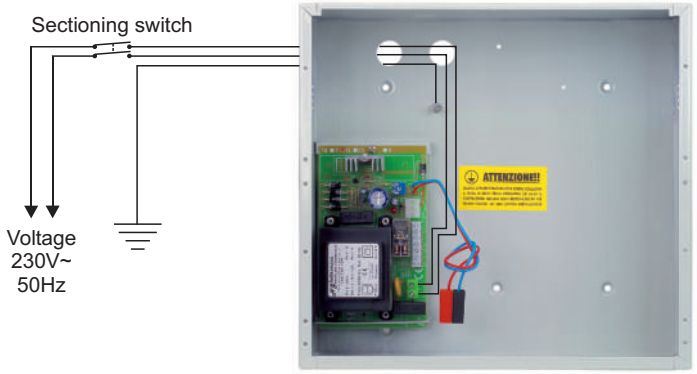
2.1 Safety warning

- Do not install central in places exposed to extreme temperatures or the inclemencies.
- For a solid and reliable implantation, it is indispensable to make sure that the surface of the wall is level.
- Fix central to an height that allows an easy access to the frontal panel.
- Central is protected against tamping, but installation in a protect local and eventually in the zone of cover of a volumetric detector is one additional protection.
- Carry out connections to the terminal after the assembly of the equipment.
- Execute the connections according norm CEI 79-3 “particular Norm for the anti/effraction, anti intrusion, burglar alarm and anti agression system”.
- Central panel burglar alarm TM600P must be installed on the superior part of a container TM3 or TM4 with two screws in the confection. It is also possible to install central panel burglar alarm in coupling to a panel mobile telephone dialer. In that way it is necessary to use container TM4C.

2.2 Power supply

It is important to know that power supply of all the system is furnished exclusively from the present battery 12V7Ah to the inside of the central; it is constantly held in loads by power supplier/battery, which will be connected to the main power supply 230V~ .

WARNING!
The main voltage 230V~ has to be connected to the power supplier/battery by two 1,5 mmq wires double isolation coming from a sectioning switch (i.e. a magneto thermic switch) used only for burglar central unit. Inside of central positioning the two wires in a way sufficiently tidy, locking them by wrappers in the containers TM3, TM4 e TM4C.



At completed system, connect to the battery the two connectors fortified of cable head *faston* type from the local power supply. Attention (Red = [+] positive battery / Black = [-] negative battery), to avoid to damage gravely connection devices.

ATTENTION !
The 12V7Ah battery must be always connected. Ensure periodically of its efficient charge state measuring the tension at its heads with a volt meter, after disconnecting the main power supply from the local power source by the appropriate sectioning switch. Also in case of charging of the load battery it is necessary to disconnect the main power supply from the local power source to avoid that entire system burden on it .
Do not connect on 13vcc services power supply output of the central (clamps[4] and [5] "+12V") a load beyond the available maximum current (see pag.4).

After connecting battery of central and of burglar, it will be able to proceed to the ignition of the sectioning switch that connects the main power supply on the clamps of the local power source.

For reasons of security and respect of the norms in vigor we advise to carry out and to verify the connection to an efficient earth system of devices that had need, included the metallic container of the central.

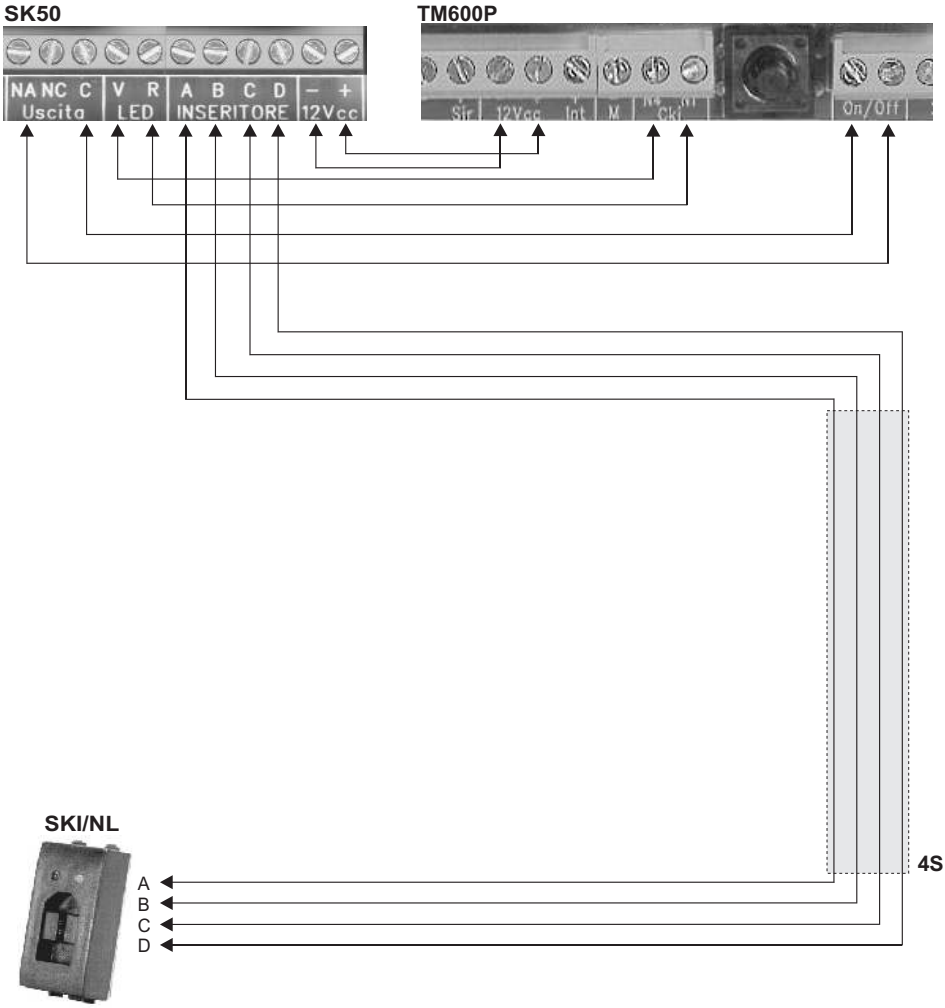
LED NET present on panel of the central signal the effective presence of the mains voltage.

2.3 Connections

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

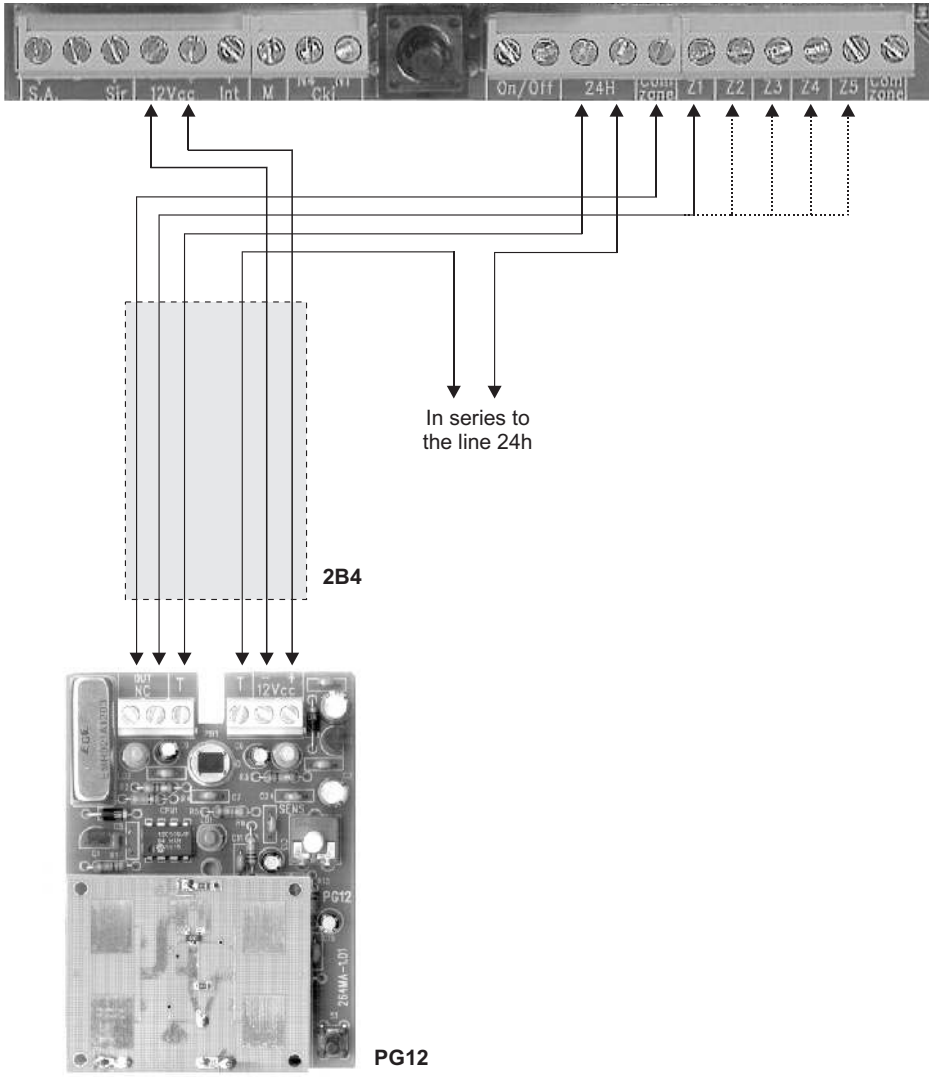
1 - 2 Output tension 13Vcc fixed self powered_burglar. Such tension falls in alarm condition.
2 - 3 Output tension 13Vcc in alarm condition for burglar.
4 - 5 Output tension 13Vcc fixed of service (volumetric detectors, mobile telephone dialer etc.). **BE CAREFULLY: available maximum current: see pag.4**
6 Output tension 13Vcc inserted central for activation mobile telephone dialer.
7 Output tension 13Vcc 100mA in condition of " ALARM MEMORY" with inserted central
8 - 9 Output tension 13Vcc for LEDs of commando systems SK50, PX100, KB. [8] = LED green, [9] = LED red
10 - 11 Terminals for insertion/not insertion of the system by eventual systems of commando Sk50, PX100, KB used in **MONOSTABLE** modality (an impulse of closing of terminals insert, another successive not insert).
12 - 13 Line NC* of protection zone anti sabotage “24h” immediate
14 - 15 Line NC* of immediate or delayed zone1 .
14 - 16 Line NC* of immediate or delayed zone2 .
14 - 17 Line NC*of immediate or delayed zone3 .
14 - 18 Line NC*of immediate or delayed zone4 .
14 - 19 Line NC* of immediate zone 5 .
20 Common(usable in alternative to [14].
* If the alarm zone are not used, clips must be short circuit.

2.3.1 Card SK50 electronic key SK



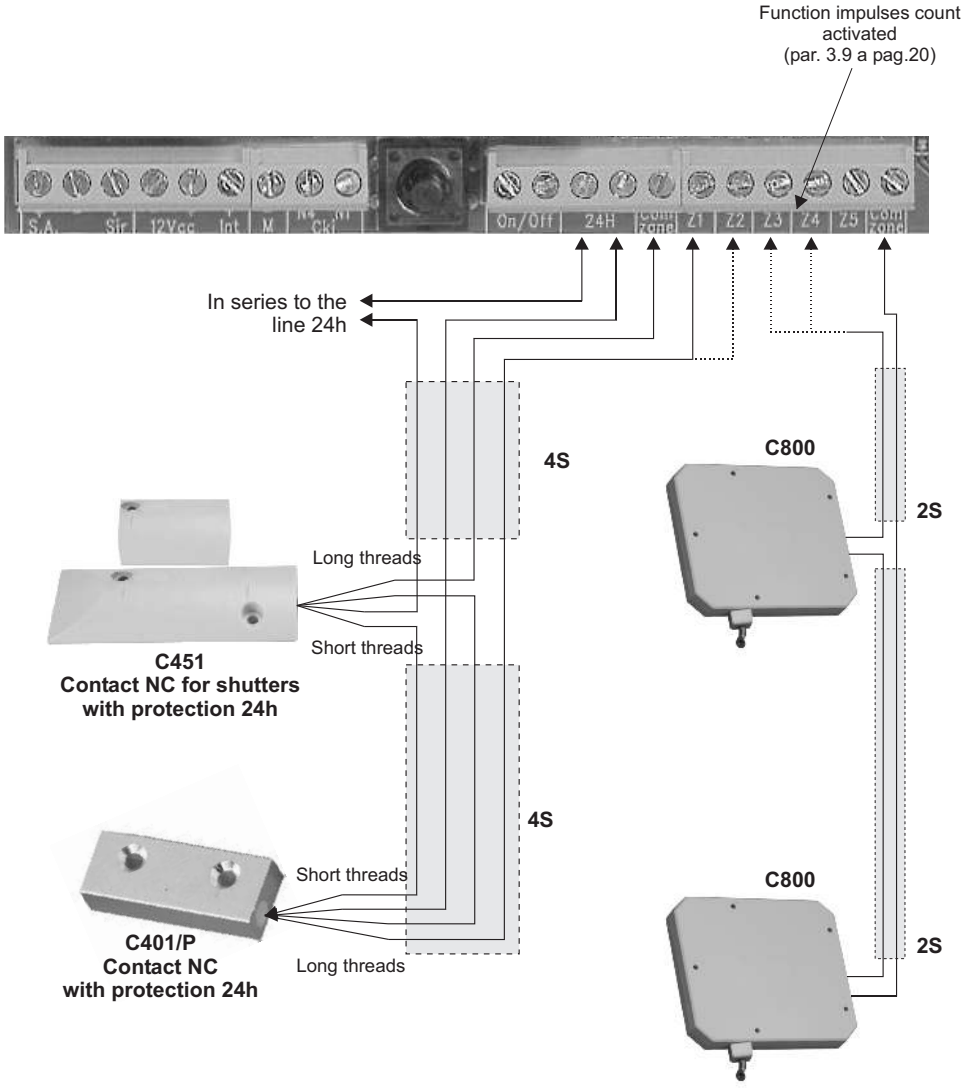
	LED Red	LED green
On	*Zone/s opened/s*	*System not inserted*
Off	*Zones closed*	*System inserted*
Lightning	Alarm memory	*Time of output in course*

2.3.2 Volumetric detectors



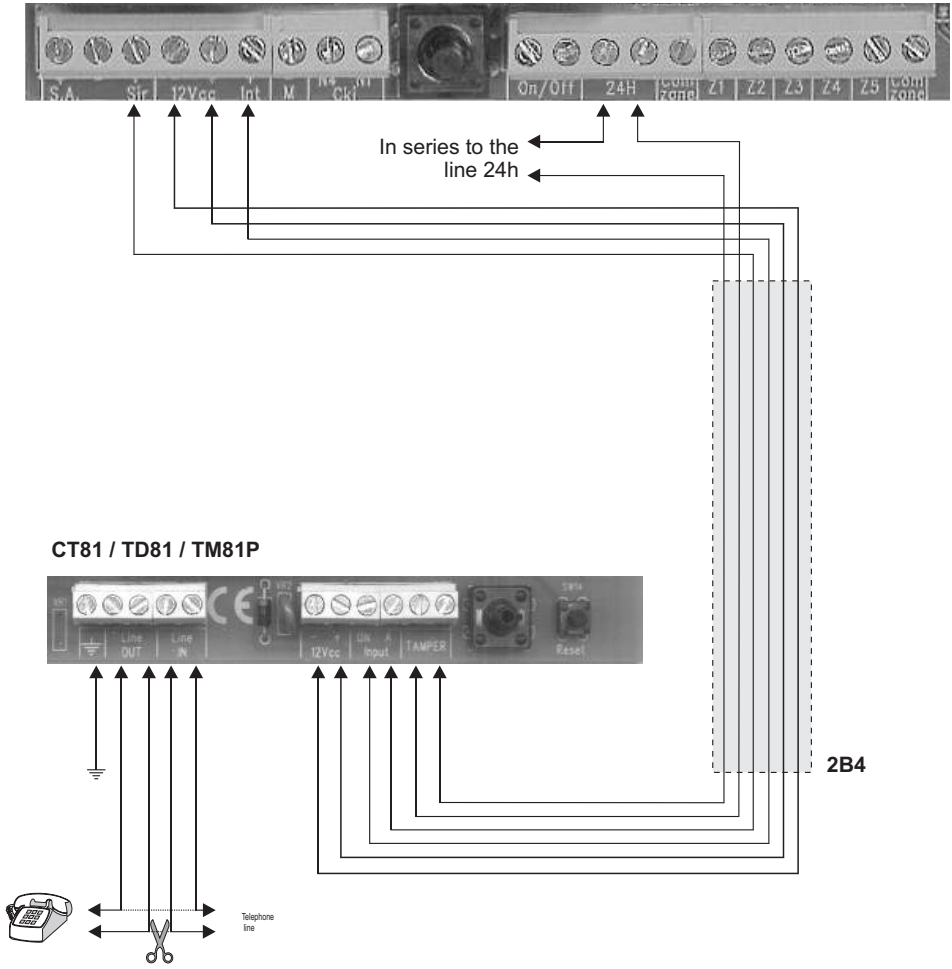
NOTE: the connection to the zone brought back is pure indicative

2.3.3 Contacts

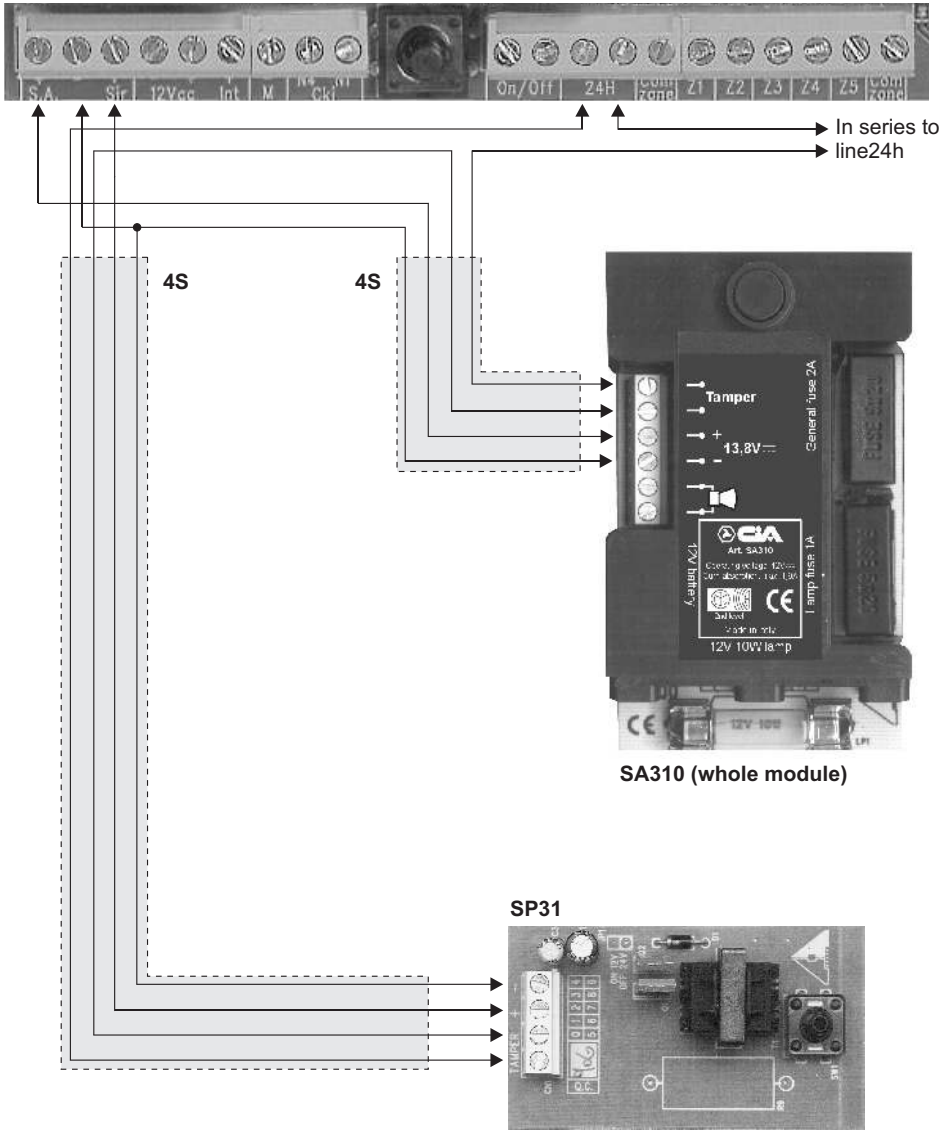


NOTE: the connection to the zone brought back is pure indicative

2.3.4 Mobile telephone dialer



2.3.5 Burglars



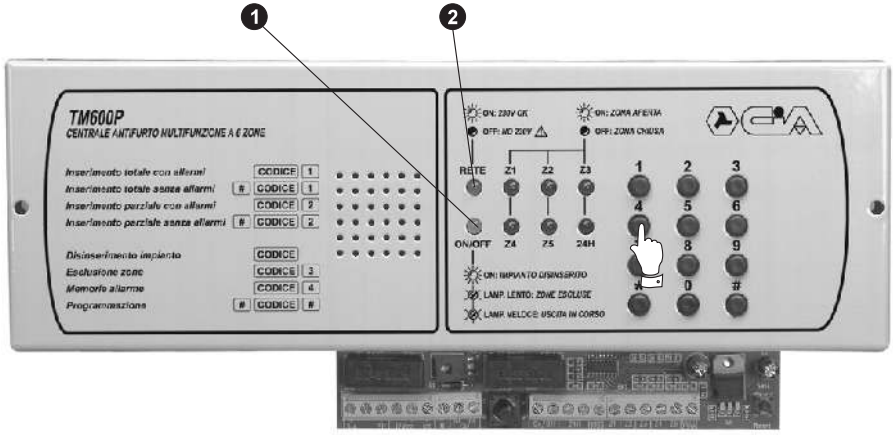
SA310 (whole module)

3 Programming

3.1 Regulation time of outputs

After inserting the system, the time of output allows to abandon protected ambients passing, for example, in the zone of cover of a detector, without to provoke alarms. The time of escape starts after the insertion of the system and has a programming duration this phase.

During last three seconds of the time of escape an acoustic signalling will be had, than at the end of the time of escape it will be totally active the protection of ambients.



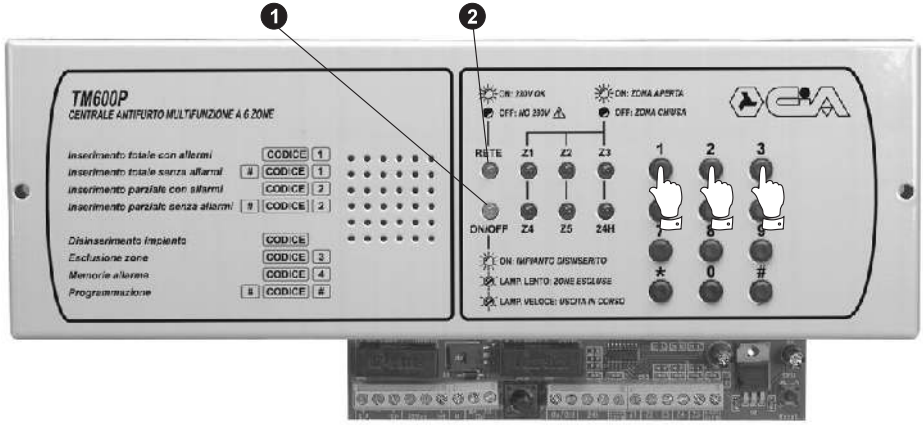
At central switched off:

- Press key ❸.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key ❸. LED ❷ will begin to flash fast.
- Press key ❹. LED ❶ will be switched off fixed.
- Insert the time of output expressed in seconds: from 000 to 199.
- Press key ❿ to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key ❿ to exit from the programming.

3.2 Regulation time of input

At inserted system, the time of input allows to approach to protected ambients passing, for example, in the zone of cover of a detector delaying the activation of alarms. The time of input starts after the opening of one of zone 1, 2 or 3 and has one programming duration independently for every zones.



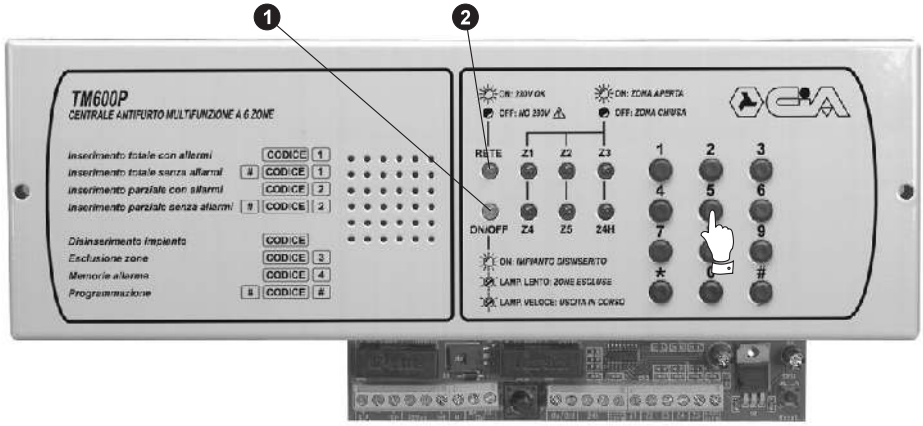
At central switched off:

- Press key ❿.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key ❿. LED ❷ will begin to flash fast.
- Press:
  - key ❶ to program the time of input on zone 1;
  - key ❷ to program the time of input on zone 2;
  - key ❸ to program the time of input on zone 3.
- LED ❶ will be ignited fixed.
- Insert the time of input wished on the pre choice zone expressed in seconds: from 000 to 199.
- Press key ❾ to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key ❾ to exit from the programming.

3.3 Regulation alarm duration

At inserted system, the opening of an immediate zone or the opening of a delayed zone (followed from the programmed time of input) will active an alarm cycle, during which inner buzzers will be activated, self powered burglars and eventual mobile telephone dialer connected. The alarm duration is programmed in this phase.



At central switched off:

- Press key ❿.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key ❿. LED ❷ will begin to flash fast.
- Press key ❺. LED ❶ will be ignited fixed.
- Insert the time of alarm duration wished expressed in tens of seconds: da 000 a 199.For example, considering equal unit to 10 seconds:
  - fingering **015** for 150 seconds;
  - fingering **115** for 1150 seconds.
  - fingering **000** alarm will last for the inflation time of the zone.
- Press key ⓫ to exit from the programming.

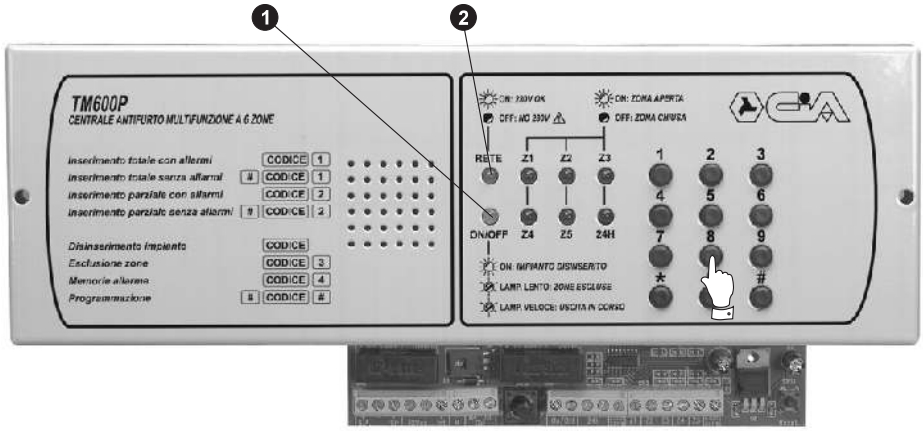
NOTE: In whichever condition, in error case it is possible press key ⓫ to exit from the programming.

BE CAREFULLY: For norm *CEI 79-2 duration of alarm must be comprised between 3 and10 minutes.*

3.4 Function GONG and acoustic signalling

Function GONG allows to control of opening of every zone by a *beep*: it is possible to active this function independetly on every zone.

In this phase it is also possible qualify or not qualify all the acoustic signalling of the speaker inside to the central TM600P: time of input, output, alarm and function GONG.



At central switched off:

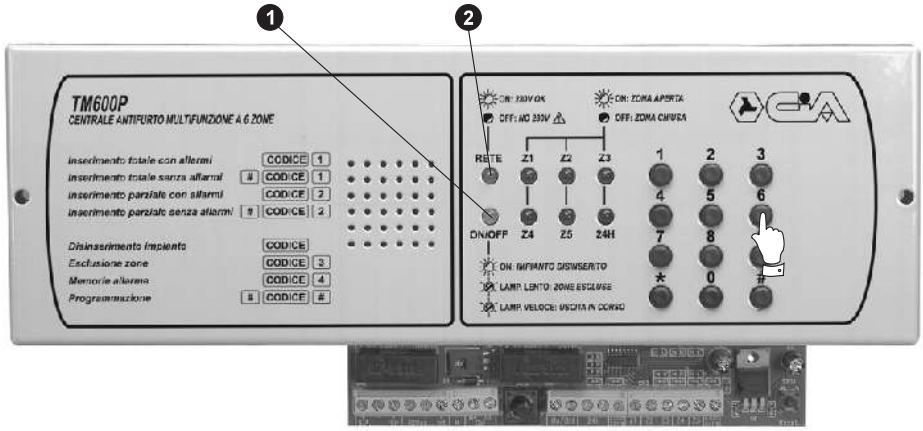
- Press key ❿.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key ❿. LED ❷ will begin to flash fast.
- Press key ❽. LED ❶ will be ignited fixed.
- Press the number of the zone/s (from ❶ to ❺) on which activate that function. LEDs from "Z1" to "Z5" ignited will indicate the zones with qualified function GONG. Every pressure on key allows to pass from the phase of qualification to that of not qualification and vice versa.
- Pressing ❻ it qualify or not qualify all the acoustic signalling (time of input, of output, alarm, function GONG): qualification is marked from LED "24h" switched on.
- Press twice key ⓫ to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key ⓫ to exit from the programming.

3.5 Function GONG CONTINUOUS on zone 1

Zone 1 usually used for the protection of the input door.

Such function allows to signal the eventual forgetfulness of the opened door by the continuous repetition of an acoustic signalling at regular intervals; the duration of that interval is programmed like following.



At central switched off:

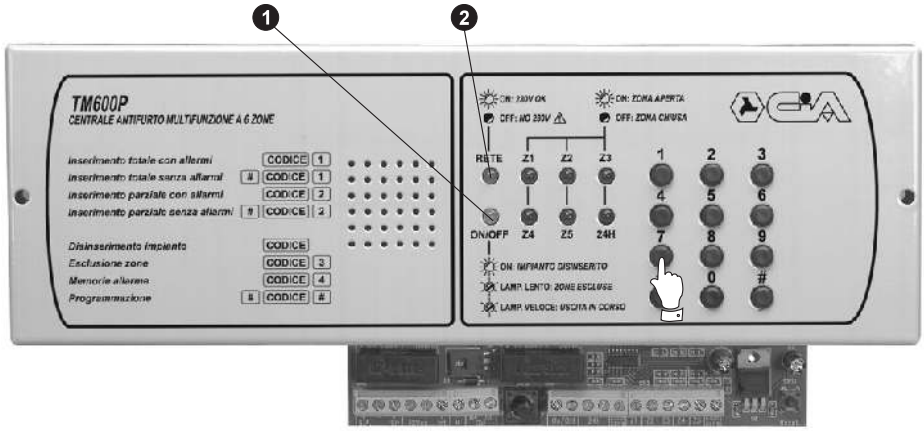
- Press key **#**.
- Insert security code . The one adopted in factory is : **1 2 3 4**.
- Press key **#**. LED **2** will begin to flash fast.
- Press key **6**.LED **1** will be ignited fixed.
- Insert the time of alarm duration wished expressed in tens of seconds: da 000 a 199.For example, considering equal unit to 10 seconds:
  - fingering **015** for 150 seconds;
  - fingering **115** for 1150 seconds.
  - fingering **000** alarm will last for the inflation time of the zone.
- Press key ***** to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key ***** to exit from the programming.

3.6 Warning of absence main power supply

In case of absence of the main power supply an acoustic signalling will be emitted from the buzzer of the panel after the programmed time of wait as following procedure.

To exclude the function program 000 like of delay.



At central switched off:

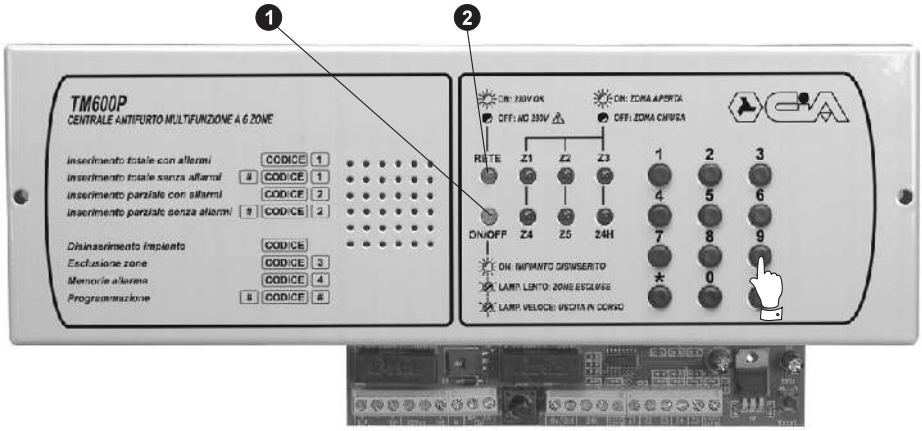
- Press key #.
- Insert security code . The one adopted in factory is : 1 2 3 4.
- Press key #. LED 2 will begin to flash fast.
- Press key 7. LED 1 will be ignited fixed.
- Insert the time of alarm duration wished expressed in tens of seconds: da 000 a 199.For example, considering equal unit to 10 seconds:
  - fingering **015** for 150 seconds;
  - fingering **115** for 1150 seconds.
- Press key *.

NOTE: In whichever condition, in error case it is possible press key * to exit from the programming.

3.7 Selection of the zone for the partial insertion

The partial insertion allows to active burglar alarm system including only pre choice zones; such function is useful if it wants, for example, insert burglar alarm system nightly hours: for example, it will be able to not qualify volumetric detectors and leave qualified perimetrical protections.

This procedure allows to select the security zones that will be qualified in the partial insertion of the system.



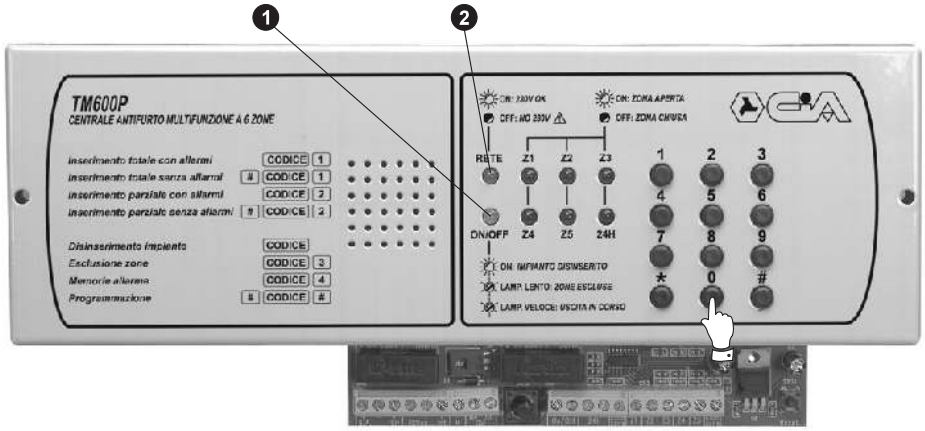
At central switched off:

- Press key #.
- Insert security code . The one adopted in factory is : 1 2 3 4.
- Press key #. LED 2 will begin to flash fast.
- Press key 9. LED 1 will be ignited fixed.
- Press the number of the zone/s to include/exclude in the partial insertion. The ignited LEDs will indicate the zones with qualified function. Each pressure on key allows to pass from the phase of qualification to that one of not qualification and vice versa.
- Press twice key * to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key * to exit from the programming.

3.8 Variation of security code

The programmed code in factory ❶❷❸❹ it can be changed like final user want; to such aim follow the procedure described in this phase.



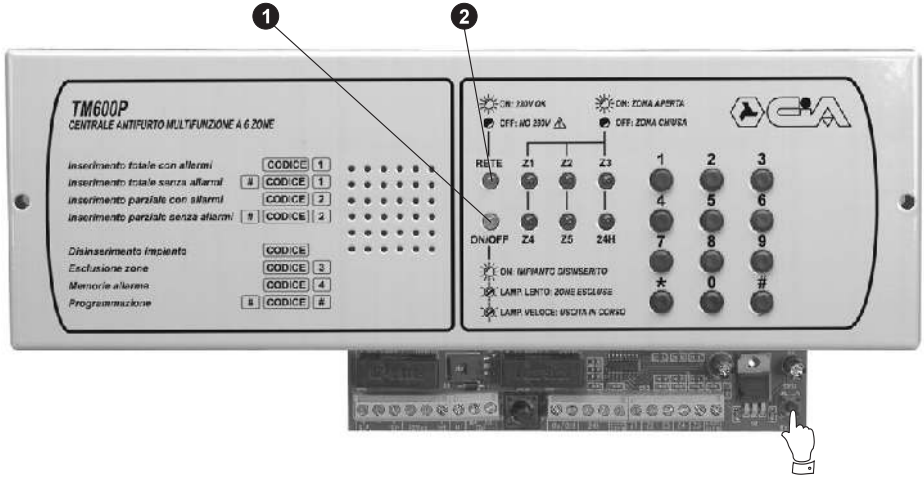
At central switched off:

- Press key #.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key #. LED ❷ will begin to flash fast.
- Press key 0. LED ❶ will be ignited fixed.
- Insert two consecutive times security code of 4 figures wished.
- LED ❷ it will switched off.
- Press key * to exit from the programming.

NOTE: In whichever condition, in error case it is possible press key * to exit from the programming.

3.9 Restoration of the values sets up in factory

To restore the value set up in factory follow this procedure.



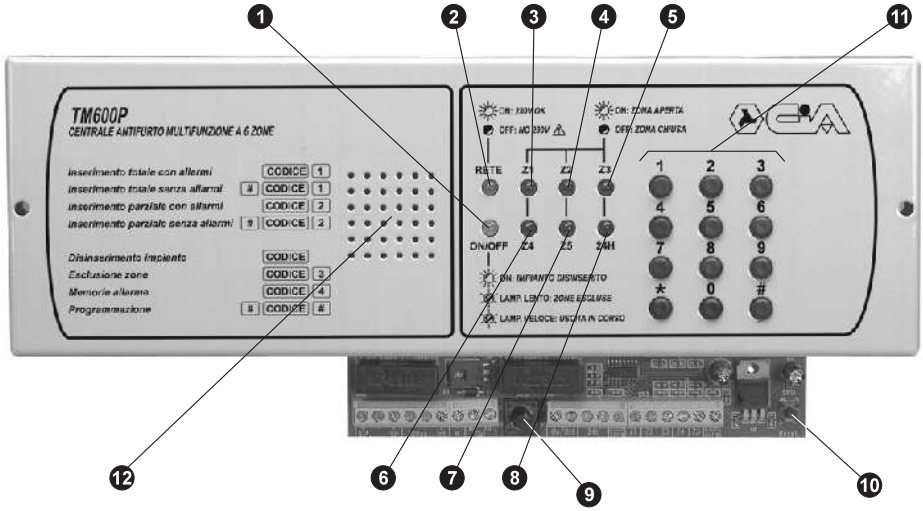
- Press key ❽.
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key❽. LED ❷ will begin to flash fast.
- Press key "RESET" put in the inside of the panel until hearing sonorous signal emitted from the central.
- Press key ❿. It will be restored following values:

Time of input on zona 1	010 (10 sec.)
Time of input on zona 2	000 (0 sec.)
Time of input on zona 3	000 (0 sec.)
Time of output	020 (20 sec.)
Alarm duration	030 (300 sec. = 5 min.)
Interval duration warning opened zona 1	030 (300 sec. = 5 min)
Interval duration warning lack net	❶❷❸❹
Qualified zones in the partial insertion	Zone 1, 3 e 4
Gong	Qualified on zone 1
Acoustic signalling	Qualified
Including zones	All

NOTE: In whichever condition, in error case it is possible press key ❿ to exit from the programming.

4 Operating

4.1 Panel description



1. LED ON/OFF (Yellow)
   - On — *Not inserted system*
   - Flashing slow — *Not inserted system- excluding zones*
   - Flashing fast — *Time of output in course*
2. LED NET
   - On — *Tension of net present*
   - Flashing slow — *Tension of net absent*
   - Flashing fast — *Programming in course*
3. LED ZONA 1
   - On — *Opened zone*
   - OFF — *Closed zone*
4. LED ZONA 2
   - On — *Opened zone*
   - OFF — *Closed zone*

   LED ZONA 3
5. On — *Opened zone*
   OFF — *Closed zone*

   LED ZONA 4
   On — *Opened zone*
6. OFF — *Closed zone*
7. LED ZONA 5
   - On — *Opened zone*
   - OFF — *Closed zone*
8. LED ZONA 24h
   - On — *Opened zone*
   - OFF — *Closed zone*
9. TAMPER ANTI OPENING CENTRAL
   Connected in series to line 24h.
10. KEY RESET
    For the restoration of the values set up in factory.
11. KEYPAD
    For the management of the central.
12. SPEAKER
    Signal several phases of operating and of programming.

4.2 Insertion of burglar alarm system

By numerical key present on the front of the panel it is possible to insert burglar alarm system in following ways:

- Total insertion
- Total garrisoned insertion (without buzzers).
- Partial insertion
- Partial garrisoned insertion (without buzzers).

Total or partial insertion is also possible by electronic key or other device (key of proximity, magnetic paper, electronic keypad).

4.2.1 Total insertion

It previews the activation of all security zones, except those excluded (par. 4.3). To insert totally burglar alarm system:

- Press security code.
- Press key ❶.

It will be available the *time of output* to abandon all protected ambients. Last three seconds available will be accompany from an acoustic signalling if qualified.

Or:

- Insert electronic key in key reader.
- LED green start to flash.
- Extract key before that the lightning is finished.

4.2.2 Total insertion garrisoned (without buzzers)

It previews the activation of all security zones, except those excluded (par. 4.3), and the inhibition of burglars output, leaving the singular acoustic signaler ⓬ of the central if qualified. To insert burglar alarm system in total garrisoned way:

- Press key #.
- Press security code.
- Press key ❶.

It will be available the *time of output* to abandon all protected ambients. Last three seconds available will be accompany from an acoustic signalling .

4.2.3 Partial insertion

It Previews the activation the only qualified security zones in partial insertion (par. 3.7), except those excluded(par. 4.3). To insert burglar alarm system in garrisoned way:

- Press security code.
- Press key ❷.

It will be available the *time of output* to abandon protected ambients eventually qualified in the partial insertion. Last three seconds available will be accompany from an acoustic signalling.

Or:

- Insert electronic key in key reader.
- LED green start to flash.
- Extract key after that the lightning is finished.

4.2.4 Partial garrisoned insertion (without buzzers)

It Previews the activation the only qualified security zones in partial insertion (par. 3.7), except those excluded (par. 4.3), and the inhibition of buzzers output, leaving the singular acoustic signaler ⓬ incorporated in the central. To insert burglar alarm system in partial garrisoned way:

- Press key ❽.
- Press security code.
- Press key ❷.

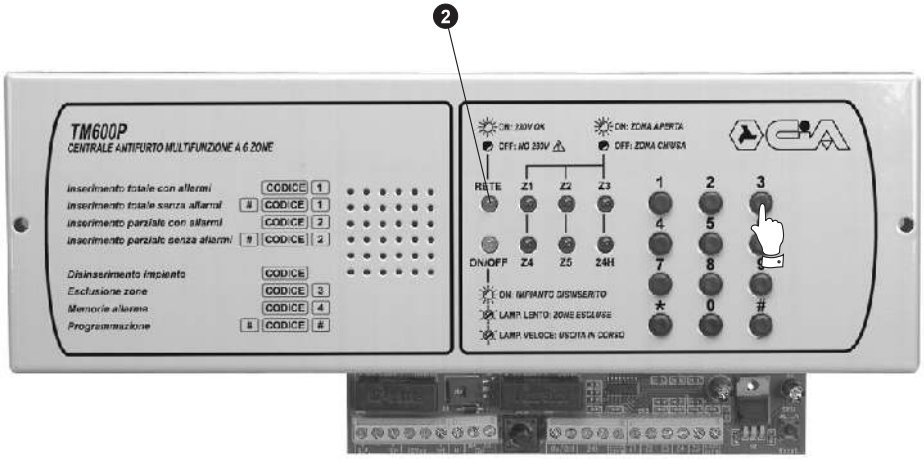
It will be available the *time of output* to abandon protected ambients eventually qualified in the partial insertion. Last three seconds available will be accompany from an acoustic signalling.

4.3 Burglar alarm system switched off

During time of output, at inserted system or during the alarm it is possible not insert the system pressing security code or inserting key in key reader. At still inserted central the slow flash of the red LED on key reader indicates alarm memory. At not inserted central eventual alarms are signalled from the fast flash of the LED of zone on central.

4.4 Exclusion/inclusion of the zones

At the moment of the insertion of the system, any it is, it is previewed the possibility to exclude fastly the zones that are not necessary protect between those qualified from total insertion, or between that only qualified from the partial insertion. The unqualified zones from the partial insertion however they will be excluded.



At central switched off, with LED ❷ switched on:

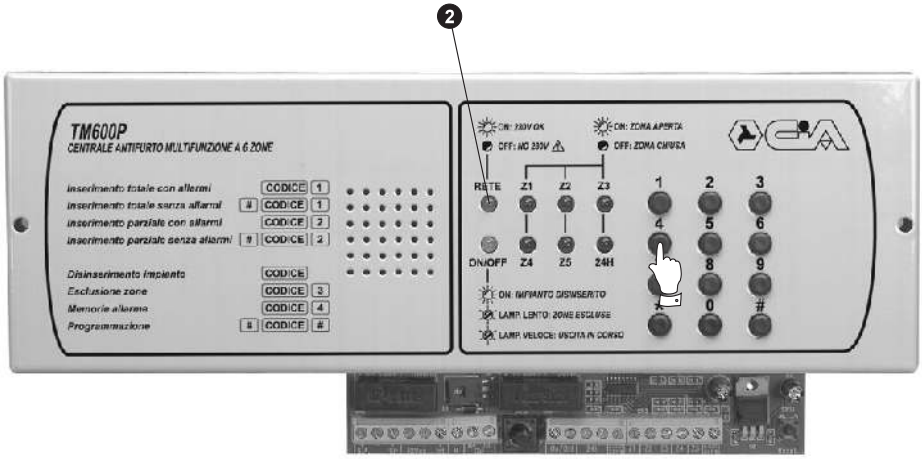
- Insert security code . The one adopted in factory is : ❶❷❸❹.
- Press key ❸.
- Pressing correspondent number to the zona to exclude. Relative LED switch off.
- To include again the zone it is sufficient to press again the relative number to the zone.
- Press twice key ✱.

NOTE: In whichever condition, in error case it is possible press key ✱ to exit from the programming and repeat completely the cycle.

4.5 Alarm memory

At not insertion of the system eventual "*LEDs zones"* lightning, will indicate the activated zones during the period of' insertion. This memory is deleted at successive insertion of the system.

Pressing ✱ the visualization of the alarm memory is deleted, as following to restore it:



At central switched off:

- Press key : ❶❷❸❹.
- Press key ❹.
- The relative LED at the zones is switched on that have generated the alarm.
- Press ones key ✱.

4.6 Exclusion of the zone 24 h

During the installation or the maintenance of the system it is possible to temporary esclude the provoked alarm of the zona 24h: both that of the only buzzer, that happens opening panel of the central, both that of the buzzer and of the hooters, that it happens anytime opening the circuit 24h.

To exclude the alarm of the zone 24h:

- Insert security code . The one adopted in factory is : ❶❷❸❹.

Closing again the line 24h, protection is automatic restored at the successive insertion.

5 Maintenance

5.1 Battery

We advise to periodically control the charge state of the battery connected in pad to the power supply of the series TM.

5.2 Cleaning

To the cleaning of the central use exclusively a soft and humid cloth.
Avoid diluting and abrasive sponges absolutely.

5.3 Fuses

F1	Output buzzers *3A fast*
F2	Output services *1A fast*